

Rec'd PCT/PTO

05 FEB 2006

10/510043

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/510/043

First-Named Inventor: KISHEN Anil

International Filing Date: March 28, 2003

International Application No: PCT/SG03/00063

Title: FIBER OPTIC BIO-SENSOR

Confirmation No.: 8341

Attorney Docket No.: 1304.P004US/LYH/ay

Customer No.: 38556

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE

United States Patent and Trademark Office

Commissioner for Patents

Fax No.: 571-273-9822

Total No. of Pages including cover: 13

Attention: Ms Kaya Lewis

Dear Ms Lewis:

Further to your telephone conversation with Mr Randy Rabin on 1 May 2006 and in order to avoid any further misunderstanding and confusion, we are pleased to enclose the following documents for your action based on your Notice dated October 31, 2005:

1. Transmittal Letter (PTO-1390)
2. Credit Card Payment form for \$570 (this includes the late filing fee of \$65)
3. Copy of the Notification Of Defective Response
4. Combined Declaration and Power of Attorney

This is to supersede the previous payment of \$480 which was submitted on 9 December 2005.

Please ensure we are not penalized for this late submission per your agreement with Mr Rabin.

We would also like to request for the correction of the Filing Receipt where the applicant was incorrect and the Atty Docket No. was not indicated.

We hope this is now in order for the issuance of a corrected Filing Receipt.

Thank you for your attention and patience.

Yours sincerely,
Lawrence Y.D. Ho & Associates



George D. Liu
Registration No. 47,752

Encl.

May 2, 2006

Date

Correspondence Address

Customer No.: 38556

Tel: (703) 536-1713

Fax: (703) 415-8601 or (65) 6732 3188

Certificate of Transmission

I hereby certify that this correspondence is being facsimile transmitted to the United States of Patents & Trademark Office, Fax No. 571-273-9822 on May 2, 2006.



George D. Liu (Reg No. 47,752)

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PTO-1399 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| | | |
|--|---|---|
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 1304.P004US/LYH/ay |
| INTERNATIONAL APPLICATION NO. PCT/SG2003/000063 | INTERNATIONAL FILING DATE March 28, 2003 | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/510,043 |
| TITLE OF INVENTION FIBER OPTIC BIO-SENSOR | | PRIORITY DATE CLAIMED April 3, 2002 |
| APPLICANT(S) FOR DO/EO/US KISHEN Anil, MECHERY Shelly John, LIM Chu-Sing, ASUNDI Anand Krishna | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <p>1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p> | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

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PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| | | | | | |
|--|--------------|---|------------|--|-----------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/510,043 | | INTERNATIONAL APPLICATION NO. PCT/SG2003/000063 | | ATTORNEY'S DOCKET NUMBER 1304.P004US/LYH/ay | |
| 21. The following fees are submitted: | | | | Applicant use | Office use only |
| <input type="checkbox"/> a) Basic national fee..... \$300.00 <input type="checkbox"/> b) Examination fee..... \$200.00 <input type="checkbox"/> c) Search fee..... \$500.00 | | | | \$ | \$ |
| TOTAL OF ABOVE CALCULATIONS = \$1000.00 | | | | \$ | \$ |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | | | |
| - 100 = | /50 = | 0 | | x \$250.00 | \$ \$0.00 |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$ 130.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | \$ |
| Total claims | 29 | - 20 = 9 | x \$50.00 | | \$ \$450.00 |
| Independent claims | 4 | - 3 = 1 | x \$200.00 | | \$ \$200.00 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | | + \$360.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ \$1,140.00 | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | \$ \$570.00 | |
| | | | | SUBTOTAL = | \$ \$570.00 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | \$ | |
| | | | | TOTAL NATIONAL FEE = | \$ \$570.00 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ \$0.00 | |
| | | | | TOTAL FEES ENCLOSED = | \$ \$570.00 |
| Amount to be refunded: | | | | \$ | |
| Amount to be charged: | | | | \$ | |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. _____. A duplicate copy of this sheet is enclosed. d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | |
| SEND ALL CORRESPONDENCE TO: | | | | | |
|  SIGNATURE George D. Liu | | | | | |
| NAME 47,752 REGISTRATION NUMBER | | | | | |

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Page 1 of 2



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
|-----------------------------|-----------------------|------------------|
| 10/510,043 | George D. Liu | |

38556
 LAWRENCE Y.D. HO & ASSOCIATES PTE LTD
 30 BIDEFORD ROAD, #07-01, THONGSIA BUILDING
 SINGAPORE, 229922
 SINGAPORE

RECEIVED
 07 NOV 2005

Date Mailed: 10/31/2005

INTERNATIONAL APPLICATION NO.

PCT/SG03/00063

| | |
|------------------|---------------|
| I.A. FILING DATE | PRIORITY DATE |
| 03/28/2003 | 04/03/2002 |

CONFIRMATION NO. 8341
 371 FORMALITIES LETTER

"OC000000017359550"

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 10/01/2004
- Copy of the International Search Report filed on 10/01/2004
- Copy of IPE Report filed on 10/01/2004
- Copy of Annexes to the IPER filed on 10/01/2004
- • Oath or Declaration filed on 06/15/2005
- Small Entity Statement filed on 10/01/2004
- Request for Immediate Examination filed on 10/01/2004
- U.S. Basic National Fees filed on 10/01/2004
- • Assignment filed on 06/15/2005
- Priority Documents filed on 10/01/2004

*To respond to.
 Kaya Lewis*

Applicant's response filed 06/15/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION OF MISSING REQUIREMENTS mailed 04/28/2005 have not been completed.

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Additional claim fees of \$505 as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 was not received.

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Page 2 of 2

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$440 for a Small Entity:

- \$65 Surcharge.

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

- Total additional claim fee(s) for this application is \$ 505

- \$100 for 1 independent claims over 3.
- \$225 for 9 total claims over 20.
- \$180 for multiple dependent claim surcharge.

(A previous payment of \$130 will be applied to the additional fees indicated above.)

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

DARRELL C COTTMAN

Telephone: (703) 308-9140 EXT 203

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/510,043 | PCT/SG03/00063 | |

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Page 1 of 3



UNITED STATES PATENT AND TRADEMARK OFFICE

17 NOV 2005
 UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
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 Alexandria, Virginia 22313-1450
 www.uspto.gov

| APPL NO. | FILING OR 371 (c) DATE | ART UNIT | FIL FEE REC'D | ATTY.DOCKET NO | DRAWINGS | TOT CLMS | IND CLMS |
|------------|---------------------------|----------|---------------|----------------|----------|----------|----------|
| 10/510,043 | 06/15/2005 | 1645 | 685 | 1304P004US | 6 | 24 | 4 |

CONFIRMATION NO. 8341

38556

LAWRENCE Y.D. HO & ASSOCIATES PTE LTD
 30 BIDEFORD ROAD, #07-01, THONGSIA BUILDING
 SINGAPORE, 229922
 SINGAPORE

FILING RECEIPT



OC000000017359549

Date Mailed: 10/31/2005

AM 31 08

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

George D. Liu, Residence Not Provided; ~ X

Power of Attorney:

George Liu-47752

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/SG03/00063 03/28/2003

Foreign Applications

SINGAPORE 200201691-3 04/03/2002

Projected Publication Date: 02/09/2006

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Fiber optic bio-sensor

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Preliminary Class

435

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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